MONTEREY ACCELERATED RESEARCH SYSTEM CABLED OBSERVATORY DRAFT ENVIRONMENTAL IMPACT REPORT/ENVIRONMENTAL IMPACT STATEMENT

PUBLIC MEETING

TRANSCRIPT OF PROCEEDINGS

SESSION 1

Taken on behalf of the Monterey Bay Aquarium Research
Institute at 8272 Moss Landing Road, Moss Landing,
California, before Melinda Nunley, CCR #9332, a Notary
Public within and for the County of Monterey, State of
California.

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2	APPEARANCES:			
3	Vicki Hill, Consultant for Monterey Bay Aquarium Research Institute			
4 5	Michelle Brown, Project Manager for California Lands Commission			
6	Keith Raybould, Monterey Bay Aquarium Research Institute			
7	Jon Davidson, EIR/EIS Project Manager from Aspen Environmental Group			
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1 Moss Landing, California, Thursday, April 7, 2005
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2 4:10 p.m.

- 4 MS. HILL: Okay. You think we should start?
- 5 Hopefully everybody has found a parking space by now and
- found the building. I'd like to welcome everyone here
- 7 today to this meeting that's being held jointly by the
- 8 California State Lands Commission and Monterey Bay National
- 9 Marine Sanctuary. My name is Vicki Hill as you can see on
- 10 the name tag, and I'm a consultant to the Sanctuary helping
- 11 them with environmental issues associated with this
- 12 project.
- 13 We are here today to present information on the
- 14 Monterey Bay aquarium Research Institute's proposed MARS
- 15 cable project. The main intent of the meeting today is to
- 16 provide information on it but more importantly to get
- 17 public comments.
- 18 Before we get started I want to take care of a few
- 19 housekeeping items and that is I hope everyone has signed
- 20 in on the sign-in sheet that's at the back table, and back
- 21 there there are speaker slips if anyone would like to speak
- 22 today, make comments on the environmental document. Also
- 23 there are agendas back there. I hope everyone got a copy
- 24 of it. Also we have copies of the Draft Environmental
- 25 Impact Report/Environmental Impact Statement, the EIR/EIS

- 1 on the back table as well, right, if anyone wants to take a
- 2 look at one during the meeting, and if you need to get a
- 3 copy of one for yourself, please feel free to ask.
- 4 We have several agency and applicant and
- 5 consultant representatives today. In fact I think we
- 6 outnumber any members of the public here, and I'll
- 7 introduce a few of these people. Unfortunately Dierdre
- 8 Hall from the Sanctuary could not be here today. She's the
- 9 project manager from the Sanctuary, but Holly Price is here
- 10 from the Sanctuary sitting in for her. From the State
- 11 Lands Commission we have Michelle Brown who is the project
- 12 manager for the environmental review process for the state
- 13 and Nancy Quesada who will be working -- raise your hand,
- 14 Nancy -- who will be working on writing the lease for the
- 15 project should the project be approved by the state. We
- 16 also have -- from the applicant we have Keith Raybould who
- 17 will be giving details about the project description and
- 18 Mandy Allen who's worked on the project as well. I know
- 19 that there's a lot of other people here from MBARI but I
- 20 don't think I need to go through everyone right now.
- 21 Finally we have our EIR/EIS contractor, Jon Davidson. He's
- 22 the project manager for Aspen Environmental Group who
- 23 prepared the EIR/EIS and he will go over the details, the
- 24 findings of the EIR/EIS later in the agenda.
- 25 So with that, I'd like to just give a brief

- 1 background on the joint EIR/EIS process for those of you
- 2 who might not be familiar with the process that has taken
- 3 place for this project. The application was filed in
- 4 February of 2004 and it was filed with both the State Lands
- 5 Commission and the Sanctuary, and shortly after that both
- 6 agencies got together and decided to do a joint
- 7 environmental document. Under state law -- let me back up
- 8 a second. Since the project crosses both state lands or
- 9 state waters as well as federal waters, it's subject to
- 10 both state and federal regulation. The state regulation is
- 11 the California Environmental Quality Act known as CEQA and
- 12 the Federal regulation National Environmental Policy Act,
- 13 NEPA. Since these 2 laws are very similar, we decided to
- 14 do one combined document rather than 2 separate documents
- 15 for the state and the feds.
- 16 The environmental document was prepared, as I
- 17 said, by Aspen Environmental Group under the direction of
- 18 the State Lands Commission and the Sanctuary, and the
- 19 consultant was selected jointly by the 2 agencies. And it
- 20 serves as an informational document. There is an important
- 21 point to make. It is not a decision document. It provides
- 22 information. It's full disclosure, and it doesn't make
- 23 recommendations on approval or denial of the project. Once
- 24 the environmental process is completed then the agencies
- 25 will make separate actions on the permit application and

- 1 they must consider information that's in the EIR/EIS in
- 2 making those decisions.
- 3 Let's talk about scoping for just a second. I
- 4 think Jon will probably cover some of the scoping issues as
- 5 well, but prior to starting preparation of the EIR/EIS, we
- 6 initiated a process called scoping that's required by both
- 7 state and federal law. The 2 agencies issued notices via
- 8 the Federal Register and mail, mailed out a number of
- 9 notices to a wide variety of agencies, Sanctuary users,
- 10 interest groups and other interested individuals. As a
- 11 result of the scoping process, we received only 7 comment
- 12 letters along with some verbal comments that were made
- 13 during a scoping meeting last June in this very same
- 14 location. Based on the scoping comments, on the
- 15 professional experience of the agency staff as well as the
- 16 environmental consultant, the work plan for the EIR/EIS was
- 17 developed.
- 18 So now we have the draft document. This is the
- 19 draft EIR/EIS and it was published on March 11th and it's
- 20 now out for public review for 45 days. At the end of that
- 21 45-day public review period, we will go through all the
- 22 comments and work with the consultant to prepare responses
- 23 to each comment that was made on the document. After that
- 24 we will prepare a final EIR/EIS in which all the comments
- 25 and responses will be included. Once that final document

- 1 is published, and we think that's around the 1st of July,
- 2 correct? We're hoping to get that out around the 1st of
- 3 July. Then the State Lands Commission will take action on
- 4 the project meaning they'll decide to either approve or
- 5 deny a lease for the project and they will hold a public
- 6 hearing associated with that. During the same time the
- 7 Sanctuary will be preparing a Record of Decision for the
- 8 project. This Record of Decision cannot be issued until 30
- 9 days after publication of the Final EIR/EIS. So that's the
- 10 process. Probably project approval or action -- action on
- 11 the project will take place by next summer, hopefully
- 12 August.
- 13 Just a couple other notes, other activities that
- 14 are happening right now, the document was sent out to a
- 15 number of agencies for review and those agencies will
- 16 probably use this document in making their decisions, such
- 17 as the Coastal Commission and the Army Corps of Engineers.
- 18 Also during this time I understand that the applicant and
- 19 the fishermen's representatives are working together to
- 20 develop a fishermen's agreement which will address issues
- 21 such as fishing gear loss and liability. So that's taking
- 22 place right now too.
- I think that's all I have to say. With that I'd
- 24 like to turn it over to Michelle Brown from the State Lands
- 25 Commission who's going to spend a few minutes talking about

- 1 today's meeting and then we'll go on to the project
- 2 description that Keith will present. Thanks.
- 3 MS. BROWN: Hi. My name's Michelle Brown. I'd
- 4 like to thank you all for coming to this meeting. Again
- 5 most of the things I have to say Vicki's pretty much
- 6 covered but I have a little bit more.
- 7 MS. HILL: Sorry.
- 8 MS. BROWN: No, that's fine.
- 9 I'm a project manager for the California State
- 10 Lands Commission. As we said, this is a joint document
- 11 between the State Lands Commission and the Monterey Bay
- 12 National Marine Sanctuary and the purpose of this meeting
- 13 is for you to receive information about the project and for
- 14 us to hear your comments about the adequacy of the document
- 15 in addressing potential environmental impacts that may
- 16 result from the project. The purpose of this meeting is
- 17 not to discuss issues relating to the project or whether
- 18 you are for or against the project.
- 19 The draft EIR/EIS was released on March 11th and
- 20 comments must be received by the end of the 45-day review
- 21 period which ends on April 26th. We'll be taking comments
- 22 received today as well as those that are sent to us by fax
- 23 or by email or by regular mail and all those will be
- 24 responded to in the final document. The final document
- 25 will then be considered for certification in the near

- 1 future, most likely August by our commission as well as by
- 2 the Sanctuary.
- 3 Please make sure you've signed in on the sign-in
- 4 sheet and if you would like to speak today, we have speaker
- 5 slips. I'd like each person that would like to speak today
- 6 to please write down your name, your agency affiliation or
- 7 group affiliation so that our court reporter can properly
- 8 record you for the record and that we can respond to your
- 9 comments.
- 10 Now Keith Raybould will speak. He's going to give
- 11 a description of the project, and after Keith is finished,
- 12 then Jon Davidson will get into the details of the report.
- 13 Thank you.
- MR. RAYBOULD: Okay. So what I'm going to go
- 15 through is a project description. I'm going to go through
- 16 the MARS location and cable route, the purpose of the cable
- 17 observatory, a description of the node and the trawl
- 18 resistant frame, shore landing, cable installation and
- 19 scheduling.
- 20 So the route starts at Moss Landing here and I'll
- 21 describe the shore landing in a short while. It goes
- 22 across the continental shelf to the north of the canyon
- 23 through this neck of the Smooth Ridge down to the node
- 24 that's here on Smooth Ridge. The depth of the node is
- 25 almost 3,000 feet. There's about 30 miles of cable, and

- 1 the shore landing here that I'll describe in detail in a
- 2 short while is through a horizontally directionally drilled
- 3 5-inch steel pipe.
- 4 The purpose -- the 2 main drivers and purposes for
- 5 the MARS Cable Observatory was first as a test bed. It's
- 6 a test bed for a larger regional cable observatory that's
- 7 going to be built soon funded by the National Science
- 8 Foundation as part of an Ocean Observer Initiative. This
- 9 larger test bed -- this larger cable observatory is off the
- 10 Oregon/Washington coast and it includes 30 or so nodes and
- 11 about 3,000 kilometers of cable. MARS is a single node and
- 12 50 kilometers of cable as a test bed for testing the
- 13 engineering that was necessary for building a cable
- 14 observatory of this scale. After this regional cable
- 15 observatory is built called NEPTUNE, MARS will be used for
- 16 testing instruments and methods for deploying instruments
- 17 prior to placing these instruments on this larger regional
- 18 cable observatory. That's one of the aims, as a test bed.
- 19 The other one is to perform science, area science
- 20 in the bay. There are many different science applications
- 21 being proposed that the observatory can be used for. I can
- 22 only just briefly mention 2 today in the time available.
- 23 One of them will be for the seismometer studies. These
- 24 are the faults that run through Monterey Bay. The San
- 25 Gregorio Fault runs right across here. MARS will be able

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1 to power a permanently installed seismometer on the west
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- 2 side of this fault. There are literally hundreds of
- 3 seismometers on the east side. By being able to locate a
- 4 seismometer on the west side that is able to get data
- 5 continuously and is powered continuously, it will provide a
- 6 lot of information on the mechanisms and locations of
- 7 seismic activity along these critical fault lines.
- 8 One of the other areas I was going to mention is
- 9 the application of using hydrophones on the cable
- 10 observatory. This is an example of some data taken which
- 11 shows whale calls here and this is a passing vessel. This
- 12 is some seismic activity and it shows some of the data that
- 13 can be taken with permanently installed cells such as MARS.
- 14 The cable will be buried to the maximum extent it
- 15 can, nearly 70 to 75 percent of the route. There's a
- 16 section just near Smooth Ridge where surface conditions
- 17 don't allow it to be buried. It's designed for a 25-year
- 18 lifetime after which it will be removed. During this 25
- 19 years new instruments will be designed and tested on the
- 20 MARS facility prior to being moved and used on the regional
- 21 cable observatory. These instruments will be located
- 22 within a 4-kilometer radius of the MARS node and then
- 23 connected and provided with powered communication by
- 24 service laid cables. The facility provides about 10
- 25 kilowatts of power and gigabits band width which is of

- 1 course a magnitude more than can be provided by
- 2 battery-powered self-contained instruments, and there's 8
- 3 instrument ports for connecting the instruments to it.
- The node itself, that's shown here. This is
- 5 approximately 10 feet by 8 feet, weighs about 2 tons. This
- 6 is inserted inside a trawl resistant frame that you can see
- 7 here. This is the actual trawl resistant frame that's
- 8 being manufactured as we speak. This is the cable that
- 9 comes back to Moss Landing. These are the cables that go
- 10 out to the instruments that we'll connect to the ports on
- 11 here. So we can maintain this facility by bringing back
- 12 the node with our regular day vessel ships so there's no
- 13 need to bring extra vessels in for doing maintenance on the
- 14 system. All the electronics are contained in this node and
- 15 this can be retrieved on a daily mission to the location.
- 16 The shore landing, this is the entrance for Moss
- 17 Landing Harbor. The shore landing is just here. This is
- 18 the property that's owned by MBARI. There'll be a small
- 19 hut which is approximately the size of what you can see
- 20 here, and from this location there will be a horizontally
- 21 directionally drilled pipe which will go from that shore
- 22 landing location about 4700 feet to the other side of the
- 23 canyon. This is a profile of the HDD pipe. This is where
- 24 it enters on the shore side. It's located approximately 15
- 25 feet below the seabed surface and it exits here where the

- 1 cable will be inserted about 4700 feet offshore.
- 2 Cable installation, the cable is a one-inch
- 3 diameter cable. It's single armored, lightweight armor
- 4 protected. Those are 2 different types of cable. This the
- 5 armoring around here on the cable. It will be buried 70
- 6 percent of the route. It will take about 3 or 4 days to
- 7 install the cable and the node will take another 2 or 3
- 8 days and then the postlay inspection and burial which will
- 9 take 1 to 2 days so the entire operation is something no
- 10 longer than 8 or 9 days.
- 11 This is the cable laying vessel that we'll use for
- 12 installation. It's called the Alcatel. It's got
- 13 directional positioning. There's no need for any anchors
- 14 during the entire operation.
- 15 In terms of schedule, we're planning on starting
- 16 the horizontal directional drilling in September of this
- 17 year. This will be followed by the cable node installation
- 18 which, as I mentioned, will take somewhere in the order of
- 19 8 or 9 days to be done during this period, October,
- 20 November. We would like to do this to try and avoid the
- 21 southerly gray whale migration which is starting in
- 22 December. The shore landing installation and connection
- 23 back to utilities will then follow and the cable node
- 24 installation which will be done in December, the operations
- 25 starting in early 2006. And that's all I have for the

- 1 description.
- 2 MS. HILL: Are there any questions specific to the
- 3 project description? Everyone raise their hand at once.
- 4 Okay. Keith, you're getting off easy. No questions.
- 5 Okay. Jon Davidson from Aspen will now give an
- 6 overview of the EIR/EIS.
- 7 MS. DAVIDSON: One of the things I liked about
- 8 working on the environmental review for this project was
- 9 the look on people's faces I got when I told them I worked
- 10 on MARS.
- 11 I'm going to just kind of briefly give you an
- 12 overview of the findings of the EIR/EIS that we prepared.
- 13 First of all, the EIR/EIS was focused on 9 issues that the
- 14 lead agencies had identified in their initial review and
- 15 through the scoping process that Vicki already mentioned.
- 16 These are the 9 issues of a larger set of issues that were
- 17 considered potential to result in significant impacts and
- 18 so we focused the EIR analysis on these 9 issues. It turns
- 19 out that not all 9 had significant impacts but we didn't
- 20 know that until the analysis was completed. For the issues
- 21 that are not analyzed in the EIR/EIS, the reason why is
- 22 documented in the back of the document in section 5.7 in
- 23 your book.
- 24 If you're familiar with how these analyses are
- 25 done, it's a pretty standard approach that's taken. The

- 1 specifics vary by topic and the project itself, but if you
- 2 look at Section 4 of the document, the Impact Analysis,
- 3 just kind of the core of the EIR/EIS, you'll see that the
- 4 sections are all structured in a similar way and that's
- 5 what I'm stepping through here. And the first is to
- 6 establish current conditions, baseline conditions for each
- 7 topic that's analyzed, and so there's a description of a
- 8 current condition and there's also a description of
- 9 applicable regulations. After that, significance criteria
- 10 are presented, and what significance criteria tend to do is
- 11 to set a threshold to use to measure the significance of
- 12 the impacts. So if we know that the threshold is
- 13 triggered, then we're going to consider that impact
- 14 significant.
- The -- the impacts we evaluate against those
- 16 criteria and there's a determination made on whether an
- 17 impact is significant or not, and you'll see a
- 18 classification system in the EIR/EIS which is significant
- 19 unavoidable impacts. These are impacts that can't be
- 20 mitigated to less than significant level. Those are what
- 21 we call Class 1 impacts. There's Class 2 impacts which are
- 22 potentially significant but we have high confidence that
- 23 the mitigation measures recommended in the document will
- 24 reduce them to less than significant level. Class 3 are
- 25 impacts that are adverse but not significant in magnitude

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1 or severity. There's also a Class 4 which we really didn't
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- 2 utilize but that's beneficial impacts. There's also a
- 3 category called no impact. Basically we don't give it a
- 4 classification. It just isn't an impact. There may be a
- 5 significance criteria that says here's something that could
- 6 occur and we analyze it and realize it wouldn't occur.
- 7 In general across those 9 issue areas that I
- 8 showed you earlier, we identified 34 impacts that were
- 9 potentially significant -- excuse me. They were
- 10 significant -- they were either less than significant,
- 11 potentially significant, or significant and unavoidable.
- 12 It turns out we had no significant and unavoidable. We
- 13 just had Class 2 and Class 3, which is significant but can
- 14 be reduced to less than significant level or less than
- 15 significant. So of those, the ones that are most important
- 16 to our analysis are the 4 that we've determined to be
- 17 potentially significant and those are impacts related to
- 18 air quality, cultural resources, marine vessel traffic and
- 19 noise, and all those impacts, as I said, can be reduced to
- 20 a less than significant level with the mitigation measures
- 21 that are recommended in the EIR/EIS, and because we have
- 22 such a small number, just 4, I'm going to go through each
- 23 impact briefly.
- 24 First the air quality impact will be analyzed
- 25 which is basically a violation of the threshold established

- 1 by the Monterey Bay Unified Pollution Control District for
- 2 construction emissions, and these are basically emissions
- 3 from the cable laying vessel and the other vessels that
- 4 will be used in the cable laying operation. Often for
- 5 land-based emissions, the construction equipment emissions
- 6 aren't considered significant from the way that the local
- 7 pollution control district defines significant because they
- 8 build that assumption of that type of construction vehicle
- 9 operation into their planning efforts, but they haven't
- 10 incorporated into the planning marine vessel construction
- 11 so we have to consider that as a separate impact. This
- 12 impact can be mitigated to less than significant level
- 13 through the use of low emission fuels which are available
- 14 for some of the support vessels and the on shore
- 15 construction, primarily for the horizontal directional
- 16 drilling that's proposed as part of the project, and then a
- 17 program that the air pollution control district has in
- 18 place, the standard mitigation that they use is to
- 19 contribute to an emission reduction program, and we have
- 20 several options there open from the district to determine
- 21 what is the appropriate contribution to an emission control
- 22 program.
- 23 The second impact is the cultural resources
- 24 impact. Basically the MBARI has designed the cable route
- 25 such as to avoid any known coastal resources, and by

- 1 coastal resources we're primarily talking about shipwrecks.
- 2 Those are the historical resources. There's potential,
- 3 however, that in some parts of the cable route, even though
- 4 they have not been detected, there is potential based on
- 5 the depth of the disturbance of the seabed that there could
- 6 be prehistoric resources, basically cultural resource sites
- 7 that were established about 18,000 years ago when the sea
- 8 level was much lower and some areas out in the bay were
- 9 actually dry land and able to be used by Man, so the
- 10 mitigation there is to more closely review the data that's
- 11 already been collected in selecting the cable route, and
- 12 the feeling is that with the combination of geologists and
- 13 qualified archeologists that they can then determine
- 14 whether there's anything that needs more specific
- 15 investigation with say an ROV to see if there's anything
- 16 that might be a significant historic impact.
- 17 The next impact relates to marine vessel traffic.
- 18 Basically the concern is here is vessels operating too
- 19 close to one another, and particularly the cabling vessel
- 20 which is a vessel with low maneuverability, and there's
- 21 supposed to be a buffer of one mile around such a ship when
- 22 it's operating. There's a possibility that another
- 23 research project which is the hole boring project which is
- 24 close to the planned location of the science node could
- 25 happen at the same time. If that's true, then there's the

- 1 possibility that the 2 operations could be within a mile of
- 2 one another, so the mitigation is simply to do some
- 3 planning to avoid that, if the ships are operating at the
- 4 same time, the boring ship and the cabling vessel, that
- 5 their scheduling be such that they wouldn't be operating at
- 6 the same time.
- 7 The last potentially significant impact had to do
- 8 with noise generated during construction. This is a fairly
- 9 common impact. As we all know, construction equipment
- 10 produces both intermittent and continuous noise levels that
- 11 are pretty high and it's often true that if there's a
- 12 sensitive receptor nearby, it would be exposed to high
- 13 noise levels, so the Monterey Bay County Noise Control
- 14 Ordinance specifies that at 50 feet no construction noise
- 15 is to exceed 85 decibels. We think there's a possibility
- 16 that during the horizontal directional drilling activity,
- 17 that could exceed that slightly, so there's some measures
- 18 recommended to avoid that excedence of that level which is
- 19 basically to shield their operating theatre and there's
- 20 several methods available. So those are the 4 potentially
- 21 significant impacts. All were reduced to a less than
- 22 insignificant level.
- 23 So another thing I wanted to talk about briefly
- 24 were the alternatives being evaluated. The consultant team
- 25 and the lead agencies got together and looked at several

- 1 alternatives, some of which were originally proposed by the
- 2 applicant and dismissed and reevaluated those as well to
- 3 see if they had merit in terms of the potential to be a
- 4 reasonable alternative and if they had potential to reduce
- 5 or avoid impacts of the proposed project, and so of the 6
- 6 original alternatives, we determined that there were 3,
- 7 including the alternative of doing nothing, the no action
- 8 project, the no action alternative, that there were 3 that
- 9 deserved a full evaluation in the EIR. So those are
- 10 basically 2 alternative landing locations, and the basic
- 11 cable route as you can see would be the same as proposed by
- 12 MBARI but it would come ashore and land at sundry
- 13 locations. And as it turns out, after we analyzed these,
- 14 the impacts were very similar. They were the same. There
- 15 were some differences but generally much more similarity to
- 16 what we had determined before. And just to briefly show
- 17 you what these alternative landing locations are,
- 18 Alternative 1 was a variation on a concept that MBARI had
- 19 previously developed for landing the cable. That was to
- 20 enter the pipeline that is owned by Duke Energy to serve --
- 21 formerly serve the Moss Landing Power Plant. It's no
- 22 longer utilized, but it is a pipeline. It's in good
- 23 condition. It extends out from the shore, and it would be
- 24 to bring that cable to that pipe and pull it to shore
- 25 through that pipe. So we looked at the impacts of that and

- 1 it also involved horizontal directional drilling across the
- 2 harbor entrance to Moss Landing.
- 3 The second alternative was to the south which is
- 4 to bring the cable across the head of the Monterey Canyon
- 5 and run it parallel to shore and bring it to the location
- 6 of a planned pier that's going to be built at the end of
- 7 Sandholdt Road there by Moss Landing Marine Laboratories.
- 8 This pier isn't under construction yet but the idea is that
- 9 when it is built, the cable could come in at that location,
- 10 attach to the pier, and land using that method.
- 11 So that's a summary of the EIR/EIS, just an
- 12 overview. There's a lot more information I was going to
- 13 present to you in the document, but that's an overview of
- 14 the alternatives and the impacts that are potentially
- 15 significant.
- MS. HILL: Thanks, Jon.
- 17 Well, is there anyone here who would like to make
- 18 any public comments at this time? No one? Not one little
- 19 comment from anyone? Okay. Are there any other questions?
- 20 No? Okay. Michelle, did you have some closing remarks or
- 21 did we cover them already? Any next steps?
- MS. BROWN: No.
- MS. HILL: Okay. We've pretty much covered
- 24 them.
- 25 MS. BROWN: If we have no further questions, or no

1 questions at all rather or comments, then this will close 2 the session and we will be having another public meeting at 3 6:30 p.m. Thank you. (The meeting ended at 4:42.)

MARS Project Draft EIR/EIS Public Meeting, Session 1, 4/7/05

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1 STATE OF CALIFORNIA
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 2 COUNTY OF SANTA CRUZ
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